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## Cotton Fiber and Processing Test Results

CROP of

1974



Agricultural Marketing Service  
U.S. DEPARTMENT OF AGRICULTURE  
Memphis, Tenn. 38122 October 11, 1974

## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1974

### Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service report short staple average fiber length from the Southwest to be shorter and less uniform than a year ago. Cottons are finer and fiber strength is stronger at zero gage tests. Shirley Analyzer nonlint content is lower than a year ago. Yarns spun from these samples show yarn strength to be weaker. Yarn appearance grades are lower. Yarn imperfections are fewer than a year ago.

Medium staple samples tested from the Southwest show cotton fibers to be finer and stronger than a year ago at this stage of the harvest. Picker and card waste is higher than a year ago. Yarns spun from these samples show lower appearance grades than a year ago. Yarn imperfections are fewer.

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These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.<sup>1/</sup> These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

<sup>1/</sup> Summary of Cotton Fiber and Processing Test Results, Crop of 1973,  
USDA, AMS, Cotton Division, May 1974.



Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through October 4, 1974 1/

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results											
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.							
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appear- ance	Imperf- ections								
				Inches			Pct.	Rdg.				Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No.	Yarn No.
Short Staple: Southwest 1973 1974	6	1.01	47	4.4	80	21	4.2	6.4	101	110	22	44							
	8	.96	44	4.0	88	21	3.5	6.6	92	105	17	42							
Medium Staple: Southwest 1973 1974	18	1.08	45	4.5	80	22	2.4	5.2	99	99	24	60							
	27	1.07	45	4.3	84	23	2.8	5.8	102	91	19	60							
Significant dif- ference <u>2/</u>		0.02	2	0.2	2	1	0.5	0.5	4(22s)		5	2	3						

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification & Sample Number			Fiber Test Results										Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C Waste		Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten-tial
										Gra	Yel											
			No	Grade	Stple	2.5% span	Unif	Zero Gage	1/8" Gage	Pct	G/tex	Pct	No	No	Pct	Lbs	Pct	Lbs	Pct	8s or 74 tx	22sor 27 tx	8s or 74 tx
Name & Code			32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Pct	Lbs	Pct	8s or 74 tx	22sor 27 tx	No	No	No

## SOUTHWEST AREA

CENTRAL TEXAS  
WACO

LANKART LX 571

95 PERCENT

3	LM LT SP	52	33	1.03	45	4.4	92	22	5.8	5.3	5	4	7.3	315	105	6.8	6.4	120	100	42	26	52
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## WAXAHACHIE

LANKART LX 571

95 PERCENT

2	SLM LT SP	42	31	0.91	42	3.6	87	17	5.6	3.3	4	4	6.6	275	84	6.4	5.4	120	80	32	23	36
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Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification & Sample Number			Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Stple	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non-Lint		Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potential
			2.5% span	Unif.		Zero Gage	1/8" Gage		Pct	G/tex	Pct	Gra		Yel	No	Pct	Lbs	Ibs	Pct	22s or 27 tx	50s or 12 tx	
Name & Code		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Pct	Pct	Pct	Pct	Pct	No	No	No	No	No

## SOUTHWEST AREA

CENTRAL TEXAS  
BATESVILLE

STONEVILLE 213

95 PERCENT

52	34	1.06	43	4.5	83	21	6.1	3.9	4	6.0	89	25	5.5	3.5	70	60	27	22	54
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## NAVASOTA

DELTAPINE 16

100 PERCENT

41	35	1.12	44	4.6	84	22	7.2	3.0	3	4.9	91	28	5.6	4.0	90	70	16	15	57
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## WHITNEY

TAMCOT SP37

100 PERCENT

52	31	0.94	41	3.4	96	19	5.7	5.0	4	8.0	65	14	4.2	3.8	70	60	34	29	36
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